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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,115	11/07/2001	Andreas Buos	085874-0381	4653
	7590 06/06/2001 LARDNER LLP	7	EXAM	IINER
SUITE 500			DABNEY, PHYLI	ESHA LARVINIA
3000 K STREE WASHINGTO			ART UNIT	PAPER NUMBER
			2614	
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			MAIL DATE	DELIVERY MODE
			06/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/986,115	BUOS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Phylesha L. Dabney	2614				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed  ys will be considered timely.  the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status	·					
1) Responsive to communication(s) filed on 1/31	<u>1/07</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-45 is/are pending in the application	Claim(s) 1-45 is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) 1,4-23 and 26-30 is/are allowed.						
6)⊠ Claim(s) <u>31-34,36-43 and 45</u> is/are rejected.	Claim(s) <u>31-34,36-43 and 45</u> is/are rejected.					
7) Claim(s) 35 and 44 is/are objected to.	Claim(s) <u>35 and 44</u> is/are objected to.					
8) Claim(s) are subject to restriction and/	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:  1.⊠ Certified copies of the priority document	its have been received.					
2. Certified copies of the priority documen						
3. Copies of the certified copies of the price		ed in this National Stage				
application from the International Burea	,	nd.				
* See the attached detailed Office action for a lis	t of the certified copies not receive	su.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	rate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 1/31/07.  5) Information Disclosure Statement(s) (PTO-152)  Other:						

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### **DETAILED ACTION**

This action is in response to the amendment filed on 29 June 2006 in which claims 1, 4-23, and 26-45 are pending. Claims 2-3 and 24-25 were cancelled.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31-34, 36-43, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erickson (U.S. Patent No. 1,985,722).

Regarding claims 31-32 and 37, Erickson teaches a loudspeaker exciter assembly comprising: a base plate (33) for attachment to an acoustic radiator (23, 24, 30-31; 35-38); and an exciter (10, 12-14, 17-18; 46-47) attached to said base plate in a repeatedly engageable manner (page 2, col.2 line 7).

Erickson fails to teach any means, such as non-repeatedly engageable, for attaching the base plate to acoustic radiator (specifically Erickson does not teach how item 23; 35 is attached to the base plate).

However, the Admitted Prior Art (office action dated 3/29/06) teaches that it was known to use attachment means such as glues, to secure plates (planar surface) to radiators and minimized distortion from movement. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any means including non-

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repeatably engageable adhesive glue to secure the base plate to the radiator of Erickson for the reason stated above.

Regarding claim 33, Erickson teaches the loudspeaker exciter assembly according to claim 31 or claim 32, wherein said exciter is engageable with said base plate via a releasable connection (page 2, col. 2 line 7).

Regarding claim 34, Erickson teaches the loudspeaker exciter assembly according to claim 33, wherein said releasable connection is a threaded connection (page 2, col. 2 line 7).

Regarding claim 36, Erickson teaches the loudspeaker exciter assembly according to claim 33, further comprising a locking device (threaded connection, page 2, col. 2 line 7) for locking said releasable connection.

Regarding claims 38-41, see the rejection of claim 31-32 and 37.

Regarding claims 42-43, see the rejection of claims 33-34.

Regarding claim 45, see the rejection of claim 36.

# Allowable Subject Matter

Claims 35 and 44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 1-30 are allowed. With respect to these claims, the prior art of record fails to teach a bending wave exciter comprising a coupler attached to a surface of the acoustic radiator; a voice coil assembly attached to the coupler, and a suspension attached to the coupler and magnetic assembly for supporting the magnet assembly adjacent to the voice coil assembly relative to the coupler, as substantially described and connected with the other functional language of these claims.

### Response to Arguments

Applicant's arguments have been fully considered but they are not persuasive.

With respect to the Applicant's argument that Erickson fails to teach the acoustic radiator is mounted on the surface of a base plate, the Examiner disagrees.

Erickson clearly teaches an acoustic radiator (diaphragm assembly) being capable of surface mounting via members (23,35) to base plate (33).

Therefore, the rejection is being maintained.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phylesha L. Dabney whose telephone number is 571-272-7494. The examiner can normally be reached on Mondays, Wednesdays, Fridays 8:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

### Any response to this action should be mailed to:

Commissioner of Patents and Trademarks P O Box 1450 Alexandria, VA 22313-1450

#### Or faxed to

(703) 273-8300, for formal communications intended for entry and for informal or draft communications, please label "Proposed" or "Draft" when submitting an informal amendment.

#### Hand-delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314 Application/Control Number: 09/986,115 Page 6

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

May 23, 200

PLD